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	7590 02/09/2007 S HELD & MALLOY, LTD		EXAMINER		
500 WEST MA	DISON STREET	,	JOHNSON, CARLTON		
SUITE 3400 CHICAGO, IL 60661			ART UNIT	PAPER NUMBER	
,			2136		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
	10/658,310	FRANK, ED H.
Office Action Summary	Examiner	Art Unit
	Cariton Johnson	2136
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION R 1.136(a). In no event, however, may a reply be not will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).
Status		
1) ⊠ Responsive to communication(s) filed on 0: 2a) □ This action is FINAL. 2b) ⊠ T 3) □ Since this application is in condition for alloclosed in accordance with the practice under	This action is non-final. wance except for formal matters, p	
Disposition of Claims		
4) Claim(s) 1-42 is/are pending in the applicat 4a) Of the above claim(s) is/are without 5) Claim(s) is/are allowed. 6) Claim(s) 1-42 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction an Application Papers 9) The specification is objected to by the Example 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the cor	drawn from consideration. ad/or election requirement. accepted or b) □ objected to by the the drawing(s) be held in abeyance. Sometime is required if the drawing(s) is consideration.	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a 	ents have been received. ents have been received in Applications priority documents have been received (PCT Rule 17.2(a)).	ation No ived in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2-6-2004.	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date

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DETAILED ACTION

- 1. This action is responding to application papers filed **9-9-2003**.
- 2. Claims 1 42 are pending. Claims 1, 15, 29 are independent.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(e) that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1, 6 9, 12 15, 20 23, 26 29, 34 37, 40 42 are rejected under 35 U.S.C. 102(e) as being anticipated by Chandrashekhar et al. (US PGPUB No. 20030140131).

Regarding Claims 1, 15, 29, Chandrashekhar discloses a method, machine-readable storage having stored upon a computer program having at least one code section, system for multiple encryption in a multi-band multi-protocol hybrid wired/wireless network, the method comprising: receiving on a first PHY channel of an access point, a request for initiation of a communication session from an originating access device; authenticating said originating access device using a second PHY channel; and hosting said communication session over at least one of said first PHY channel, said second

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PHY channel and a third PHY channel. (see Chandrashekhar paragraph [0054], lines 3-5; paragraph [0054], lines 10-12: hybrid communications network; paragraph [0040], lines 4-6; paragraph [0108], lines 1-5: wireless/wired communications; paragraph [0056], lines 1-3: request for communications service; paragraph [0048], lines 1-7: software, implementation means))

Regarding Claims 6, 20, 34, Chandrashekhar discloses the method, machine-readable storage having stored upon a computer program having at least one code section, system according to claims 1, 15, 29, further comprising receiving an identification of said originating access device by said access point. (see Chandrashekhar paragraph [0073], lines 13-16: identification for originating device, user; paragraph [0037], lines 4-15: access network (i.e. access point))

Regarding Claims 7, 21, 35, Chandrashekhar discloses the method, machine-readable storage having stored upon a computer program having at least one code section, system according to claims 6, 20, 34, wherein said identity of said originating access device is at least one of a WEP key, a MAC address, and an IP address. (see Chandrashekhar paragraph [0073], lines 13-16; paragraph [0082], lines 14-16: IP address utilized as identification)

Regarding Claims 8, 22, 36, Chandrashekhar discloses the method, machine-readable storage having stored upon a computer program having at least one code section,

system according to claims 1, 15, 29, further comprising acknowledging said received request on said first PHY channel. (see Chandrashekhar paragraph [0057], lines 3-7: response to received request (i.e. response, ACK))

Regarding Claims 9, 23, 37, Chandrashekhar discloses the method, machine-readable storage having stored upon a computer program having at least one code section, system according to claims 1, 15, 29, further comprising determining a type of traffic generated by said originating access device on said first PHY channel. (see Chandrashekhar paragraph [0028], lines 13-15: type of traffic, VPN; paragraph [0054], lines 7-12: between communications endpoints)

Regarding Claims 12, 26, 40, Chandrashekhar discloses the method, machine-readable storage having stored upon a computer program having at least one code section, system according to claims 1, 15, 29, further comprising establishing at least one virtual channel between said originating access device and a terminating access device. (see Chandrashekhar paragraph [0054], lines 7-12: establish circuit between originating device and terminating device (i.e. endpoints, communications circuit); paragraph [0040], lines 4-6: dial-up user, physical circuit))

Regarding Claims 13, 27, 41, Chandrashekhar discloses the method, machine-readable storage having stored upon a computer program having at least one code section, system according to claims 12, 26, 40, further comprises tunneling information

between said originating access device and said terminating access device. (see Chandrashekhar paragraph [0032], lines 2-5; paragraph [0054], lines 7-12; paragraph [0081], lines 7-9: tunneling between originating and termination devices (i.e. endpoints))

Regarding Claims 14, 28, 42, Chandrashekhar discloses the method, machine-readable storage having stored upon a computer program having at least one code section, system according to claims 12, 26, 40, further comprising establishing at least a portion of said at least one virtual channel over at least a portion of one of said first PHY channel, said second PHY channel and said third PHY channel. (see Chandrashekhar paragraph [0028], lines 13-15; paragraph [0054], lines 7-12: virtual channel between originating and terminating devices (i.e. VPN tunnel, virtual channel endpoints))

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 2 5, 10, 11, 16 19, 24, 25, 30 33, 38, 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chandrashekhar in view of He et al. (US Patent No. 6,088,451).

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Regarding Claims 2, 16, 30, Chandrashekhar discloses the method, machine-readable storage having stored upon a computer program having at least one code section, system according to claims 1, 15, 29. (see Chandrashekhar paragraph [0054], lines 7-12; paragraph [0081], lines 7-9: communications between endpoints; paragraph [0048], lines 1-7: software, implementation means) Chandrashekhar does not specifically disclose generating at least one encryption/decryption key. However, He discloses wherein further comprising generating at least one encryption/decryption key for use during said communication session. (see He col. 18, lines 2-5; col. 19, lines 8-11; col. 20, lines 57-61: generation encryption/decryption key)

It would have been obvious to one of ordinary skill in the art to modify

Chandrashekhar as taught by He to enable the generation of an encryption/decryption

key. One of ordinary skill in the art would have been motivated to employ the teachings

of He in order to a network-wide centralized user administration and authentication,

credential management and network element access. (see He col.1, lines 59-63: " ... It

also supports the implementation of network-wide centralized user administration and

management, authentication, credential/privilege control and access to individual

network elements, which is highly desirable for a large and complex network. ... ")

Regarding Claims 3, 17, 31, Chandrashekhar discloses the method, machine-readable storage having stored upon a computer program having at least one code section, system according to claims 2, 17, 30, wherein said authenticating further comprises

requesting authentication information from an authentication server. (see Chandrashekhar paragraph [0041], lines 1-5; paragraph [0057], lines 1-3: utilizing an authentication server for authorization)

Regarding Claims 4, 18, 32, Chandrashekhar discloses the method, machine-readable storage having stored upon a computer program having at least one code section, system according to claims 3, 17, 31, wherein said authenticating further comprises delivering at least a portion of said authentication information received from said authentication server to said originating access device via said second PHY channel. (see Chandrashekhar paragraph [0057], lines 3-7: appropriate indication returned to user)

Regarding Claims 5, 19, 33, Chandrashekhar discloses the method, machine-readable storage having stored upon a computer program having at least one code section, system according to claims 4, 18, 32. (see Chandrashekhar paragraph [0054], lines 7-12; paragraph [0081], lines 7-9: communications between endpoints) Chandrashekhar does not specifically disclose delivering said encryption key. However, He discloses wherein further comprising delivering said encryption key to said originating access device via one of said first PHY channel or said second PHY channel. (see He col. 18, lines 2-5; col. 19, lines 8-11; col. 20, lines 57-61: delivering encryption/decryption key)

It would have been obvious to one of ordinary skill in the art to modify

Chandrashekhar as taught by He to enable the delivery of an encryption/decryption key.

One of ordinary skill in the art would have been motivated to employ the teachings of He in order to a network-wide centralized user administration and authentication, credential management and network element access. (see He col.1, lines 59-63)

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Regarding Claims 10, 24, 38, Chandrashekhar discloses the method, machine-readable storage having stored upon a computer program having at least one code section, system according to claims 9, 23, 37, further comprising at least one key dependent on said determined traffic type. (see Chandrashekhar paragraph [0054], lines 7-12; paragraph [0081], lines 7-9: communications between endpoints; paragraph [0028], lines 13-15: virtual channel between originating and terminating device (i.e. VPN tunnel, virtual channel endpoints): key utilized for VPN type traffic, encryption key parameter) Chandrashekhar does not specifically disclose generating at least one encryption/decryption key. However, He discloses wherein further comprising generating at least one encryption/decryption key. (see He col. 18, lines 2-5; col. 19, lines 8-11; col. 20, lines 57-61: generation encryption/decryption key)

It would have been obvious to one of ordinary skill in the art to modify

Chandrashekhar as taught by He to enable the generation of an encryption/decryption

key. One of ordinary skill in the art would have been motivated to employ the teachings

of He in order to a network-wide centralized user administration and authentication,

credential management and network element access. (see He col.1, lines 59-63)

Regarding Claims 11, 25, 39, Chandrashekhar discloses the method, machine-readable storage having stored upon a computer program having at least one code section, system according to claims 10, 24, 38. (see Chandrashekhar paragraph [0054], lines 7-12; paragraph [0081], lines 7-9: communications between endpoints)

Chandrashekhar does not specifically disclose the distribution of generated encryption/decryption key. However, He discloses wherein distributing said generated encryption/decryption key via at least one of said second PHY channel and said third PHY channel. (see He col. 18, lines 2-5; col. 19, lines 8-11; col. 20, lines 57-61: delivering (i.e. distributing) generated encryption/decryption key)

It would have been obvious to one of ordinary skill in the art to modify

Chandrashekhar as taught by He to enable the generation of an encryption/decryption

key. One of ordinary skill in the art would have been motivated to employ the teachings

of He in order to a network-wide centralized user administration and authentication,

credential management and network element access. (see He col.1, lines 59-63)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlton Johnson whose telephone number is 571-270-1032. The examiner can normally be reached Monday through Friday from 8:00AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nassar Moazzami, can be reached on 571-272-4195. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Carlton Johnson February 2, 2007

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